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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,247	12/10/2003	Kazuhiko Ohtsuki	1963.0150000/TGD/EDH	5764

26111 7590 10/18/2007
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER

SPISICH, GEORGE D

ART UNIT	PAPER NUMBER
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3616

MAIL DATE	DELIVERY MODE
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10/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/731,247

Applicant(s)

OHTSUKI ET AL.

Examiner

George D. Spisich

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on August 3, 2007 (RCE).
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 22-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-6 is/are allowed.
- 6) ☒ Claim(s) 22-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 June 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 3, 2007 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 22-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 22, lines 31-34, are unclear. In line 32, there is claimed "a transmission shaft including a propeller shaft", and in line 34, there is claimed "no transmission units are supported on said transmission shafts". There is only a single shaft claimed in line 32 and a plurality of shafts claimed line 34.

Claim Rejections - 35 USC § 103

Claims 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP04-171346 in view of Nemoto (USPN 6,419,041).

JP '346 discloses a frame structure of a vehicle comprising a flywheel housing, an intermediate housing and a transmission case that are connected to each other along a longitudinal axis of the vehicle to constitute a vehicle frame with an inner space for accommodating a running power transmission path for transmitting power from an engine to drive wheels via a forward/rearward movement switching unit, wherein the flywheel housing has a first end connected to the engine and a second open end opposite to the first end along the longitudinal axis of the vehicle. The flywheel housing has a hollow shape with a center axis coaxial with a crankshaft of the engine.

The intermediate housing has a hollow shape with a first end and a second end located along the longitudinal axis of the vehicle, the first end has an abutting surface against which the second end of the flywheel housing abuts, a support surface located radially inwardly of the abutting surface so as to support the forward/rearward movement switching unit and an opening surrounded by the support surface, the opening serving as a first-end opening of the intermediate housing along the longitudinal axis of the vehicle. The intermediate housing has a hollow body portion and a flange portion. The flange is located closer to the first end of the hollow body, and the flange having an opening in a radial center thereof, the opening of the flange portion serving as a first-end opening of the intermediate housing along the longitudinal axis of the vehicle.

The flange portion has a radially outward portion radially outwardly extending from an upper part of the body portion and a radially inward portion radially inwardly extending from a lower part of the body portion, so that the abutting surface located opposite to the second abutting surface of the flywheel housing, a support surface located radially inward of the abutting surface so as to support the forward/rearward movement switching unit and the first-end opening located radially inward of the support surface are defined.

The abutting surface and the support surface are located so that at least a portion of the forward/rearward movement switching unit is accommodated within the flywheel housing.

Broadly, the forward/rearward movement switching unit includes a reverser housing supported on the support surface and a reverser unit accommodated in the reverser housing, the housing has a body and an end wall that abuts the support surface so as to close the first opening of the intermediate housing and a peripheral wall extending from a peripheral edge of the end wall towards a first side of the vehicle along the longitudinal axis of the vehicle and the reverser housing being arranged so as to seal an inner space of the flywheel housing against the inner space of the intermediate housing in a liquid tight manner.

The transmission case accommodates a main-speed change unit of the running-power transmission path, and the intermediate housing has a transmission shaft passing therethrough to connect the forward/rearward movement switching unit to the

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main-speed change unit. There is a center plate interposed between the intermediate housing and the transmission case to bearing-support the transmission shaft.

JP '376 shows a transmission shaft including a propeller shaft within the hollow body portion of the intermediate housing and no transmission units are supported on the shaft within the intermediate housing.

Due to the vague pictures and disclosure of JP '376, Examiner is providing Nemoto to more clearly teach the elements common in a frame/housing connection/transmission arrangement such as Applicant's. The elements and housing arrangements/connections of Nemoto are as Applicant's claimed invention.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the housing/connection arrangements and transmission component arrangements as taught by Nemoto within the arrangement of JP '376 having a transmission shaft including a propeller shaft having no transmission units in the hollow portion of the intermediate housing.

Allowable Subject Matter

Claims 1-6 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George D. Spisich whose telephone number is (571)


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272-6676. The examiner can normally be reached on Monday-Friday 9:00 to 6:30 except alt. Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on (571) 272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

George D. Spisich
October 13, 2007



PAUL N. DICKSON
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600